

WHAT IS CLAIMED IS:

1. An accumulation type fuel injection system, comprising:

a common rail having pipe connecting portions, to which a pump pipe for introducing high-pressure fuel from a supply pump to the common rail and injector pipes for introducing the high-pressure fuel to injectors are connected, and a volume portion formed inside the common rail for accumulating the high-pressure fuel, wherein

the common rail is formed of pipe connecting means in the shape of a tee, a wye or a cross, and

the pipe connecting means is formed with the pipe connecting portions at ends thereof and is formed with a hole for providing the volume portion on an inside thereof.

2. The accumulation type fuel injection system as in claim 1, wherein the pipe connecting means is a single pipe connector in the shape of a tee, a wye or a cross.

3. The accumulation type fuel injection system as in claim 1, wherein the pipe connecting means includes a plurality of pipe connectors in the shape of a tee, a wye or a cross.

4. The accumulation type fuel injection system as in claim 3, wherein the pipe connector is formed with another pipe connecting portion at an end thereof for connecting the plurality of pipe connectors with each other.

5. The accumulation type fuel injection system as in claim 3, further comprising:

at least one connecting pipe for connecting the plurality of pipe connectors with each other and for providing the volume portion on an inside thereof, wherein

the connecting pipe is included in the common rail, and

the pipe connector is formed with another pipe connecting portion at an end thereof, at which the pipe connector is connected with the connecting pipe.

6. The accumulation type fuel injection system as in claim 1, wherein the common rail is mounted to an engine by fixing the pipe connecting means to the engine with a stay.

7. The accumulation type fuel injection system as in claim 1, wherein the pipe connecting means is formed with a functional component connecting portion at the end thereof, at which a functional component is connected to the pipe connecting means.

8. The accumulation type fuel injection system as in claim 7, wherein the functional component is a pressure sensor, a pressure limiter or a pressure reducing valve.

9. The accumulation type fuel injection system as in claim 1, wherein the hole formed inside the pipe connecting means connected with the injector pipe provides an orifice.